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United States
Department of
Agriculture

Soil
Conservation Service

Casper,
Wyoming



Wyoming Water Supply Outlook

April 1, 1986



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Wyoming

Water Supply Outlook

and

Federal-State-Private

Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

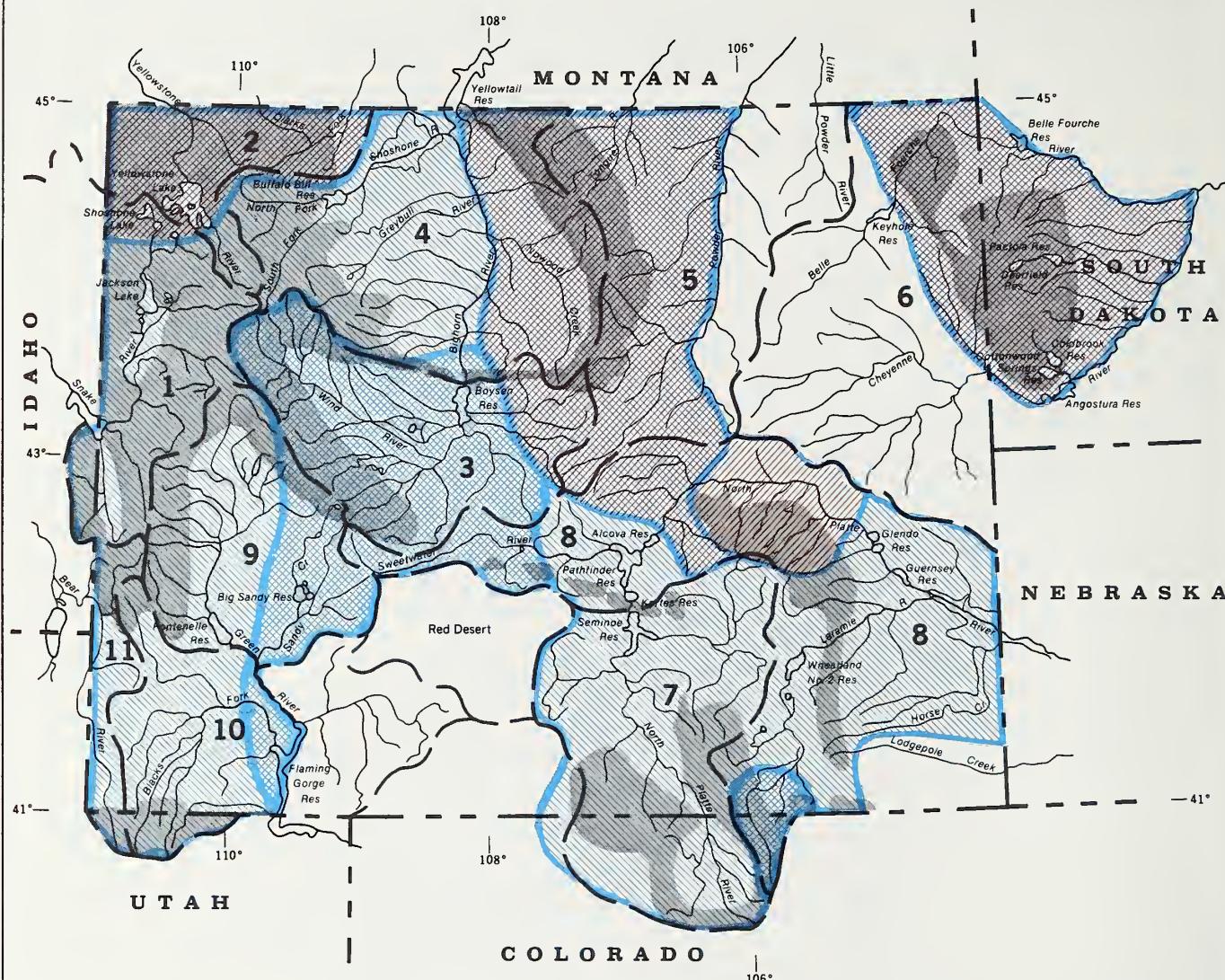
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STREAMFLOW PROSPECTS WYOMING

0 25 50 75 100 MI

0 50 100 150 KM

SOURCE: Data compiled by SCS
Field Personnel.

USDA-SCS-FORT WORTH, TEXAS 1985

JULY 1985 4-R-39346

FORMERLY 7-L-22029G

GENERAL OUTLOOK

SUMMARY:

WATER SUPPLY OUTLOOK FOR THE USERS THROUGHOUT THE STATE REMAINS QUITE HOPEFUL. USERS CAN EXPECT NEAR NORMAL TO MUCH ABOVE NORMAL WATER SUPPLIES THIS SPRING AND SUMMER. EXCEPTIONS TO THIS ARE THE DEER CREEK AND LaPRELE CREEK DRAINAGES, WHICH ARE ABOUT 40% BELOW NORMAL. SNOWPACK IN THE HIGHER ELEVATIONS THROUGHOUT THE STATE IS ALSO NEAR NORMAL TO MUCH ABOVE NORMAL. SNOWPACK AT THE LOWER ELEVATIONS FOR THE MOST PART IS GONE. PRECIPITATION FOR THE MONTH VARIED GREATLY WITHIN THE STATE AND ALSO WITHIN INDIVIDUAL BASINS. RESERVOIR STORAGE CONTINUES TO BE ABOVE THE LONG TERM AVERAGE.

SNOWPACK:

Snowpack accumulation remains above average throughout most of the state. The upper reaches of the Shoshone and Greybull Rivers along with the Wind River and Upper Green River Basins are much above average. These areas range from 30% to 76% above average. The Bighorn Mountains are near to slightly above average in snow depths. The most striking change occurred in the Black Hills where the snowpack went from 30% above average at the first of March to about 10% below average by the first of April. The low elevation or valley snowpack throughout most of the state has disappeared. Much of this now melted during the latter part of the month when the state was enjoying record breaking high temperatures. The Lander area had the warmest March ever, breaking the 1910 record.

PRECIPITATION:

Monthly precipitation when compared to normal was about half and half, and varied considerably even, within the same drainage basin. Amounts of one and one-fourth to one and one-half inches were confined to the extreme western border and western Bighorn Mountains slopes. The 2.0 inches of water equivalent from Lake Yellowstone in the Yellowstone Drainage was the greatest amount received. Amounts around one-inch occurred at Sheridan in the Tongue Drainage, Cody in the Big Horn Drainage, Bates Creek in the Upper North Platte Drainage and Torrington in the Lower North Platte Drainage. Elsewhere, amounts were mostly one-fourth to one-half inches of water equivalent, with only a few stations receiving less than one-fourth of an inch. The least report of

five-hundredths of an inch occurred around Glenrock in the Lower North Platte Drainage. The below normal March precipitation in the Snake Drainage dropped seasonal comparisions to only 25% to 50% above normal. Other seasonal comparisions show the extreme western border areas 25% to 75% above normal. Other areas were near normal to around 30% above normal.

RESERVOIRS:

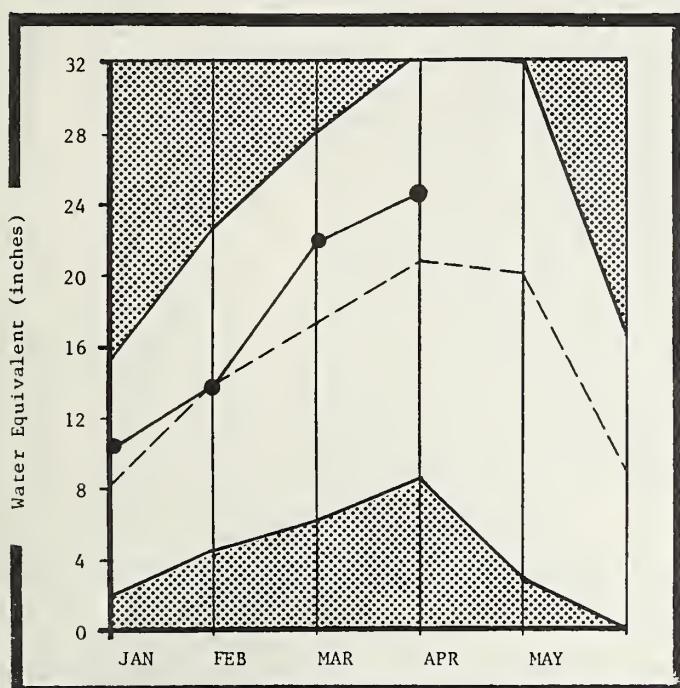
Storage in the major reservoirs in the state continues to be on the bright side. Nearly all of the reporting reservoirs show current storage greater than the long term average. Major exceptions remain Jackson Lake and Fontenelle Reservoir which are low due to anticipated construction. Reservoir storage is about 20% above normal for the major reservoirs.

STREAMFLOW:

Predicted streamflow in most of the state show that water users should have enough water to meet their needs this spring and summer. The lone exceptions are the Deer Creek and LaPrele Creek drainages in the east-central part of the state. These tributaries to the North Platte River are forecast to flow only 60% of average. The Wind River Basin, Big Sandy, Sweetwater and upper Laramie Rivers are still being forecast at much above average. These drainages range from 32% to 44% above average. Water users along the streams in the Big Horn Mountains, Black Hills, and in the Clarks Fork and upper Yellowstone drainages can expect near normal flows. For the remainder of the state, flows are forecast to be from 10% to 30% above normal. These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in a effort to provide the best possible service to the water user.

SNAKE RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

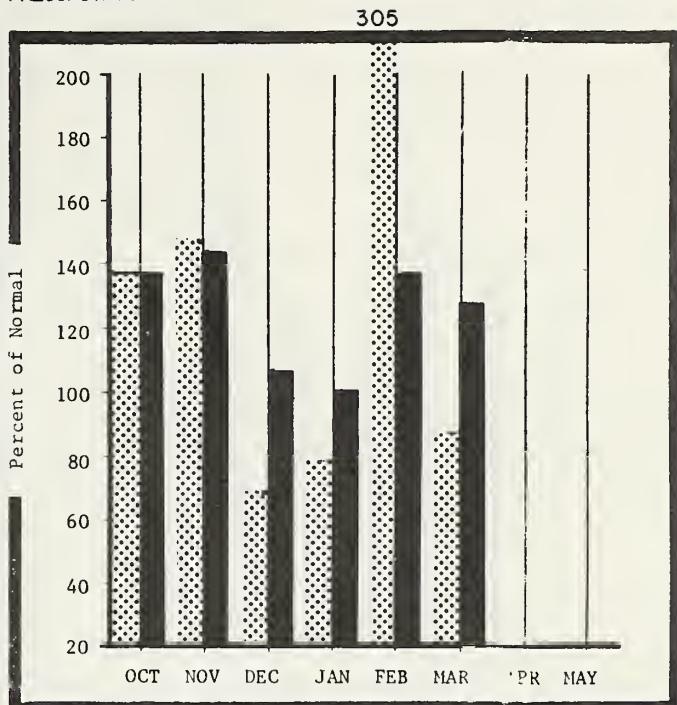
Maximum 

Average 

Minimum 

Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack buildup took a slight dip during the month but remains 10% to 30% above average. Forecast streamflow is also 10% to 30% above normal. Precipitation for the month was below normal, but accumulated precipitation for the year is about 28% above average. Water users can look forward to an ample supply of water for the spring and summer.

For more information contact your local Soil Conservation Service office.

SNAKE RIVER BASIN

STREAMFLDW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MDST PRDABLE (1000AF)	MDST PRDABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLDW (CFS)	PEAK DATE	LOW FLDW (CFS)	LOW DATE
SNAKE RIVER near Moran *	APR-SEP	880.0	1030.0	117	130	104				
SNAKE RIVER above Palisades *	APR-SEP	2730.0	3165.0	115	129	103				
SNAKE RIVER at Heise, ID *	APR-SEP	4066.0	4820.0	118	139	99				
PACIFIC CREEK at Moran	APR-SEP	174.0	210.0	120	141	101				
GREYS RIVER above Palisades	APR-SEP	393.0	485.0	123	144	103				
SALT RIVER near Etna	APR-SEP	394.0	490.0	124	152	90				
PALISADES RESERVOIR Inflow *	APR-SEP	3793.0	4500.0	118	132	106				
SWIFT CREEK near Afton	MAY-SEP	46.0	42.5	92	113	72				

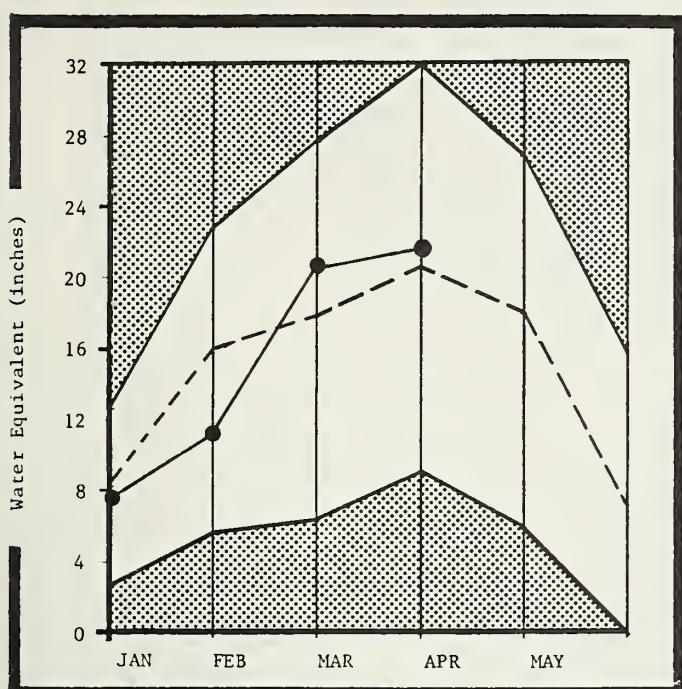
RESERVOIR STDRAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STDRAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVE.				
GRASSY LAKE	15.1	13.5	13.3	10.6	SNAKE above JACKSON LAKE	8	125	117
JACKSON LAKE	624.4	119.6	217.4	545.3	PACIFIC CREEK	2	139	125
PALISADES	1200.0	640.4	914.9	788.9	GRDS VENTRE RIVER	4	149	119
					HDEACK RIVER	7	146	127
					GREYS RIVER	4	145	114
					SALT RIVER	5	128	108
					SNAKE above PALISADES	28	137	117

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER YELLOWSTONE AND MADISON RIVER BASINS

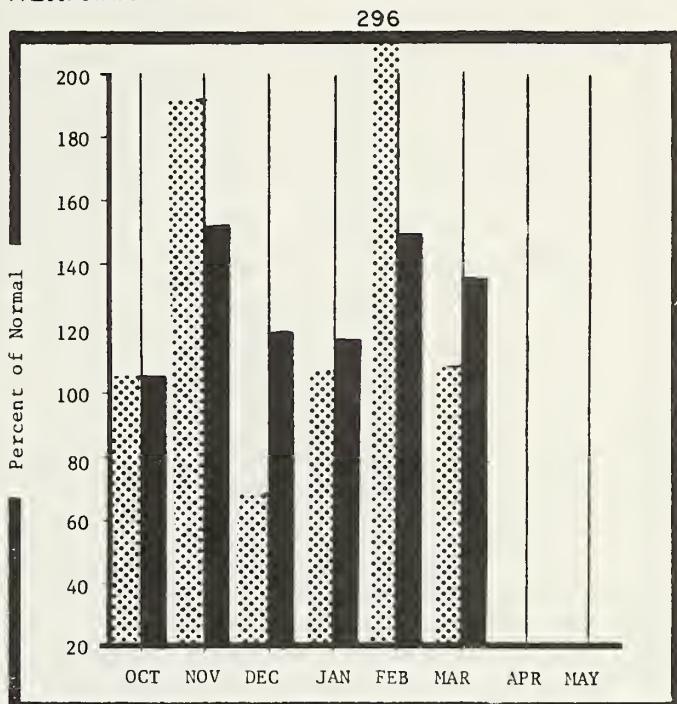
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum [Hatched Bar] Average [Dashed Line]
Minimum [Hatched Bar] Current [Solid Line]

PRECIPITATION*



*Based on selected stations

Monthly precipitation [Hatched Bar] Year to date precipitation [Solid Bar]

WATER SUPPLY OUTLOOK:

Water users in these basins in Wyoming can expect near normal streamflows this water year. Snowpack accumulation is near normal to about 30% above normal. Precipitation for March was slightly above normal, however, precipitation for the water year is about 40% above normal. Reservoir storage is below last years' average, but is about 15% ahead of the long term average.

For more information contact your local Soil Conservation Service office.

UPPER YELLOWSTONE and MADISON RIVER BASINS

STREAMFLOW FORECASTS

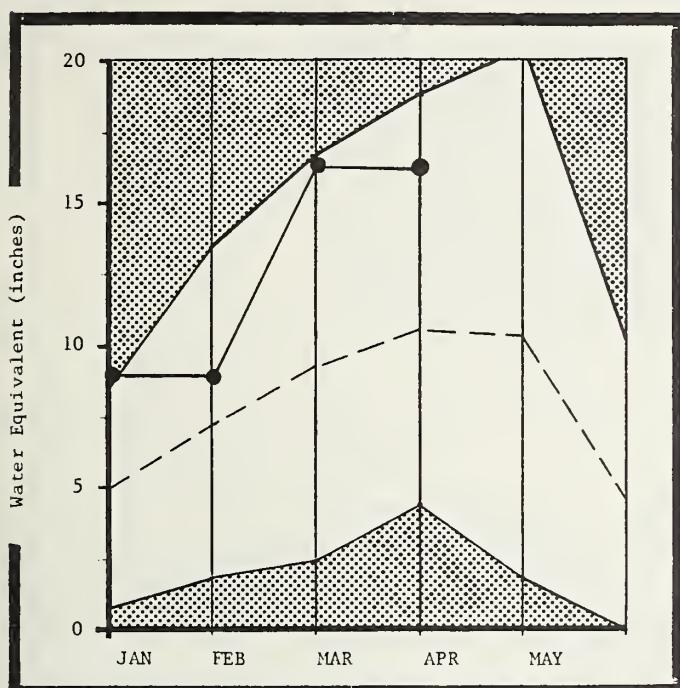
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
YELLOWSTONE RIVER at Lake Outlet	APR-SEP	826.0	900.0	108	122	96				
YELLOWSTONE RIVER at Corwin Spgs.	APR-SEP	2027.0	1900.0	93	107	81				
YELLOWSTONE RIVER near Livingston	APR-SEP	2379.0	2190.0	92	105	79				
MADISON RIVER near Grayling, MT *	APR-SEP	496.0	530.0	106	120	94				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF	LAST YR.	AVERAGE	
	YEAR	YEAR	AVE.	AVE.D				
ENNIS LAKE	41.0	31.4	32.3	35.0	UPPER MADISON RIVER	13	121	106
HEBGEN LAKE	378.0	278.5	297.0	233.6	CLARKS FORK	20	128	103
					UPPER YELLOWSTONE RIVER	18	131	108

*Corrected for upstream diversions or changes in reservoir storage.
 Average is for 1961-80 period.

WIND RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

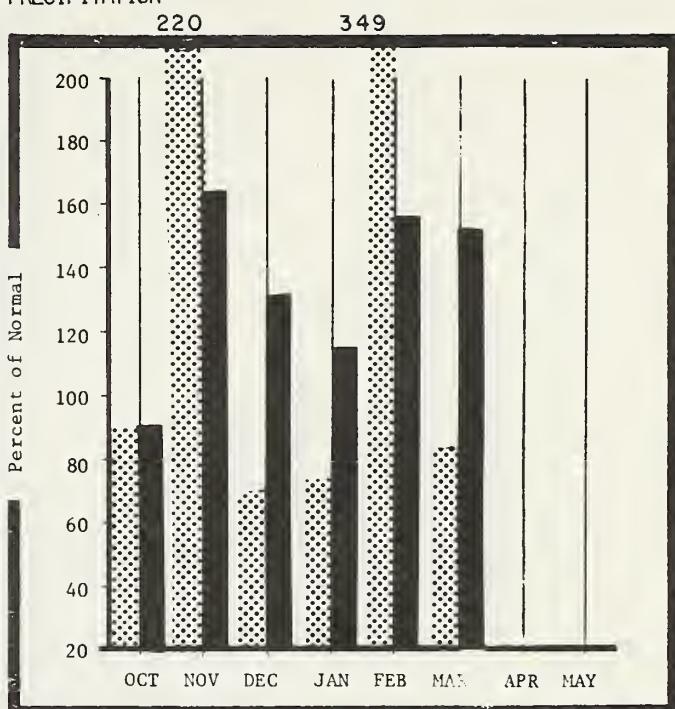
Maximum [Shaded Bar]

Average [Dashed Line]

Minimum [Solid Bar]

Current [Solid Line]

PRECIPITATION*



*Based on selected stations

Monthly precipitation [Dotted Bar]

Year-to-Date precipitation [Solid Bar]

WATER SUPPLY OUTLOOK:

Forecast streamflow in the basin show water users can expect an abundant amount of water this spring and summer. Flows are anticipated to be 30% to 40% above average. Snowpack throughout the basin is much above average. The Popo Agie drainage is 67% above average. Much of the low elevation snowpack is gone.

March precipitation was 18% below normal. Water year precipitation is about 48% above average. Reservoir storage is above the long term average, except for Bull Lake, which is 48% below average.

For more information contact your local Soil Conservation Service office.

WIND RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER near Dubois	APR-SEP	106.0	140.0	132	154	110				
WIND RIVER at Riverton *	APR-SEP	678.0	900.0	132	157	109				
WIND RIVER below Boysen *	APR-SEP	1163.0	1600.0	137	160	116				
BULL LAKE CREEK near Lenore *	APR-SEP	188.0	250.0	132	155	111				
LITTLE POPO AGIE RIVER near Lander	APR-SEP	53.0	74.0	139	166	113				

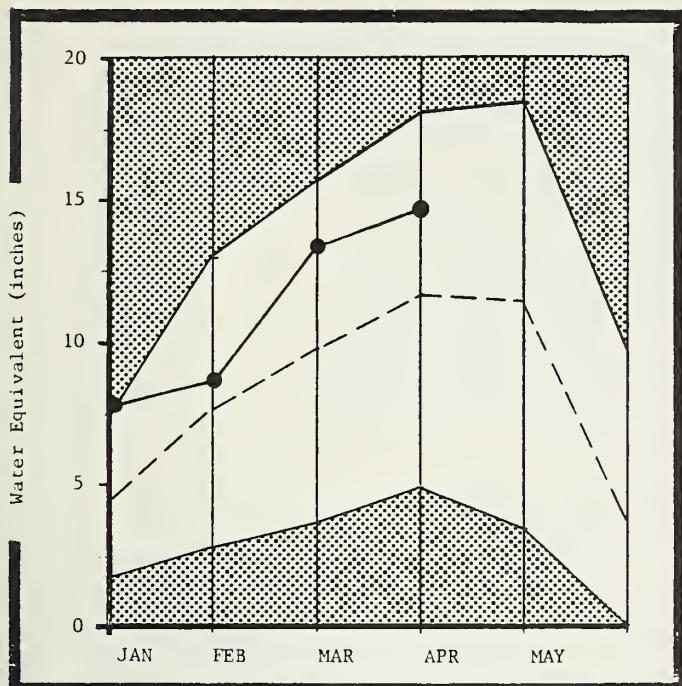
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			AVE.D	LAST YR.
BULL LAKE	151.1	45.9	89.0	88.2	UPPER WIND RIVER	11	177	130
BOYSEN	549.9	553.2	306.1	265.6	WIND above RIVERTON	18	179	133
PILOT BUTTE	31.6	24.9	23.5	19.7	POPO AGIE	5	216	170
					WIND above BOYSEN	23	186	141

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BIGHORN RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum [hatched bar]

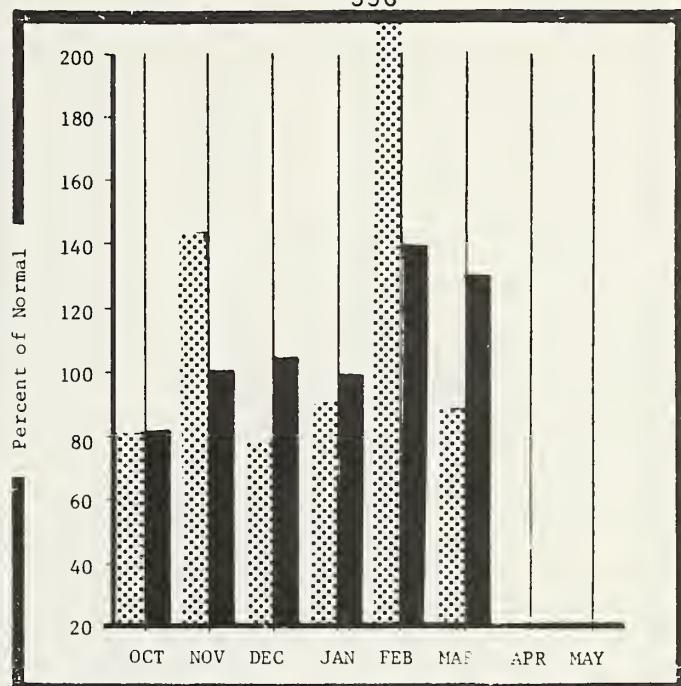
Average [dashed line]

Minimum [hatched bar]

Current [solid line]

PRECIPITATION*

336



*Based on selected stations

Monthly precipitation [hatched bar]

Year to date precipitation [solid bar]

WATER SUPPLY OUTLOOK:

Streamflow forecast for the west part of the basin is expected to be above average, while for the eastern part of the basin it is expected to be near normal. Streamflow for the Clarks Fork drainage is expected to be near or slightly above normal. Snowpack buildup is near or slightly above average. The buildup in the upper reaches of both the Shoshone and Greybull Rivers is much above average. Precipitation amounts for the month were slightly below average, but remain nearly 27% ahead of the long term average.

For more information contact your local Soil Conservation Service office.

BIGHORN RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER below Boysen *	APR-SEP	1163.0	1600.0	137	160	116				
SHELL CREEK near Shell	APR-SEP	78.0	78.0	100	129	79				
GREYBULL RIVER at Meeteetse	APR-SEP	215.0	260.0	120	143	99				
SHOSHONE RIVER b/w Buffalo Bill *	APR-SEP	845.0	1055.0	124	143	107				
CLARKS FORK near Belfry	APR-SEP	628.0	700.0	111	136	86				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278.0	315.0	113	135	91				
NOWOOD RIVER near Tensleep	MAR-SEP	71.0	78.0	109	132	87				

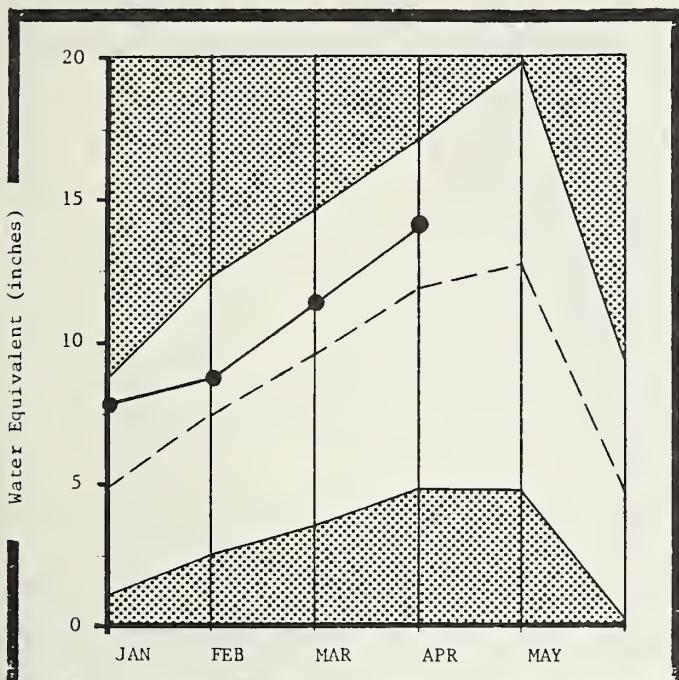
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
BOYSEN	549.9	553.2	306.1	265.6	SHOSHONE RIVER	10	165	130
BUFFALO BILL	373.1	296.1	224.0	153.6	NOWOOD RIVER	5	156	106
BIGHORN LAKE	1356.0	709.6	866.7	607.2	GREYBULL RIVER	4	185	154
					SHELL CREEK	7	135	103
					BIGHORN (Boysen-Bighorn)	33	149	116

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

POWDER AND TONGUE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

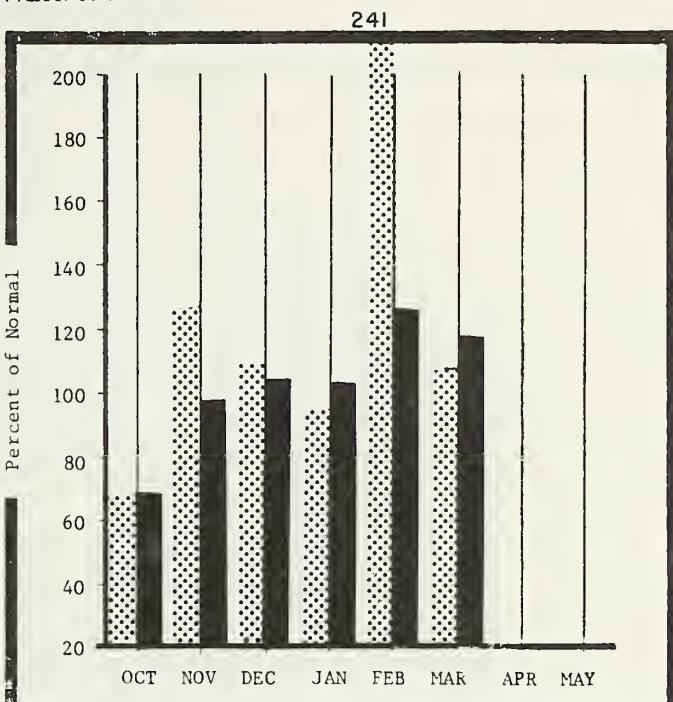
Maximum [Shaded Box]

Average [Dashed Line]

Minimum [Shaded Box]

Current [Solid Line]

PRECIPITATION*



*Based on selected stations

Monthly precipitation [Hatched Box]

Year to date precipitation [Solid Box]

WATER SUPPLY OUTLOOK:

The water users can expect near normal streamflows this spring and summer. Snowpack at the higher elevations continues to be about average. Low elevation snowpack has mostly vanished. March precipitation and yearly precipitation is near normal.

For more information contact your local Soil Conservation Service office.

POWDER and TONGUE RIVER BASINS

STREAMFLOW FORECASTS

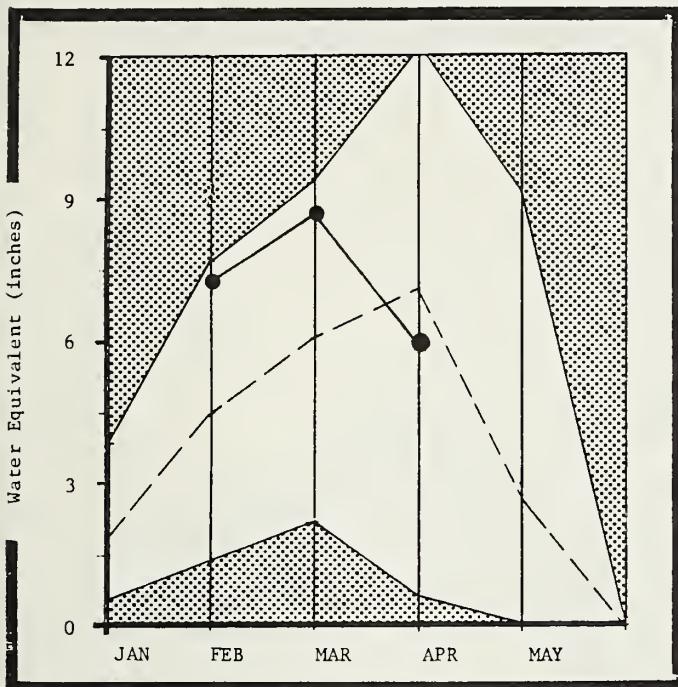
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST FROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
TONGUE RIVER near Dayton *	APR-SEP	123.0	130.0	105	131	80				
MIDDLE FORK POWDER near Barnum	APR-SEP	21.6	23.0	106	139	74				
NORTH FORK POWDER near Hazelton	APR-SEP	10.6	11.5	108	142	75				
CLEAR CREEK near Buffalo	APR-SEP	40.0	44.3	110	143	80				
ROCK CREEK near Buffalo	APR-SEP	25.4	28.0	110	142	79				
FINEY CREEK at Kearny	APR-SEP	54.8	60.0	109	142	77				
LITTLE BIGHORN at Hardin, MT	APR-SEP	182.0	207.0	113	171	69				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF		
	THIS YEAR	LAST YEAR	AVE.		LAST YR.	AVERAGE	
TONGUE RIVER	68.0	30.2	16.2	41.6	12	136	107
					6	140	104
					3	199	131
					3	199	110
					27	147	108

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BELLE FOURCHE AND CHEYENNE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum



Average



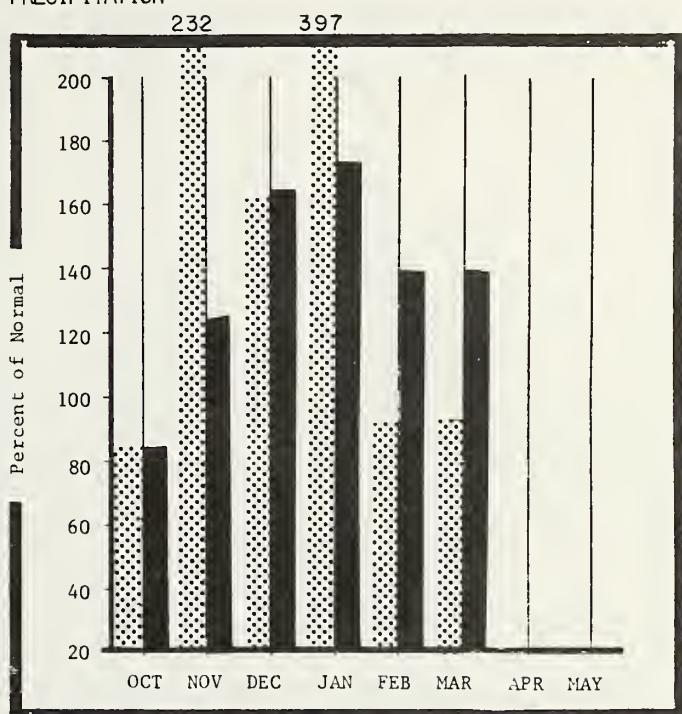
Minimum



Current



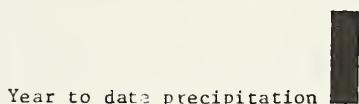
PRECIPITATION*



*Based on selected stations



Monthly precipitation



Year to date precipitation

WATER SUPPLY OUTLOOK†

Snowpack buildup took a steep slide this month. For the first time this year, reports indicate that the snow depth is below average. It is about 15% below normal when compared to the long term average. It is, however, about 27% greater than last year at this time. Precipitation for the month was about 9% below average. Streamflows are expected to be near normal. Reservoir storage is currently above the long term average for most of the reservoirs in the basins.

For more information contact your local Soil Conservation Service office.

BELLE FOURCHE and CHEYENNE RIVER BASINS

STREAMFLOW FORECASTS

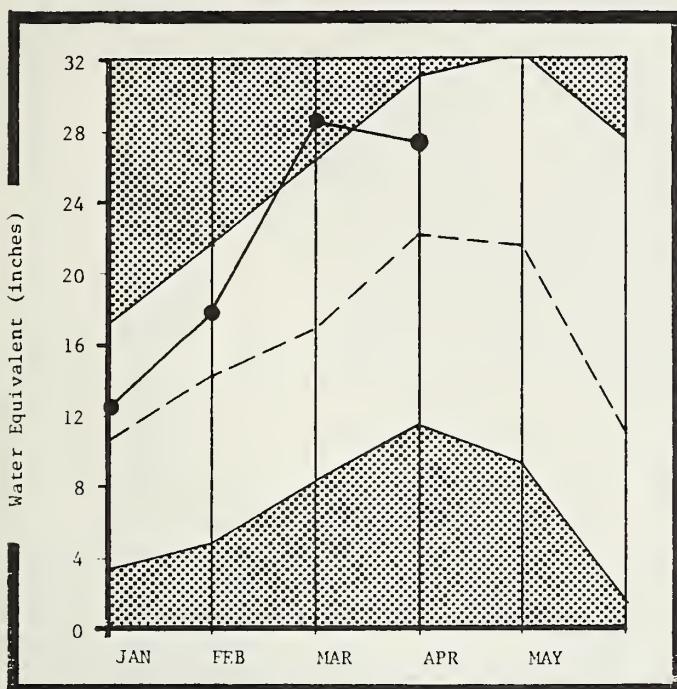
FORECAST POINT	FORECAST PERIOD	20 YR. AVE.	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
-No forecasts issued in this area-										

RESERVOIR	RESERVOIR STORAGE			(1000AF)			WATERSHED SNOWPACK ANALYSIS			
	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF			
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE		
ANGOSTURA	86.2	106.0	62.1	67.5	BELLE FOURCHE	7	127	85		
BELLE FOURCHE	185.2	100.6	161.9	132.4						
DEERFIELD	15.1	18.5	14.9	13.5						
KEYHOLE	190.4	164.4	74.4	116.5						
FACTOLA	55.0	46.4	54.3	47.3						
SHADEHILL	81.5	142.7	79.5	62.4						

*Corrected for upstream diversions or changes in reservoir storage.
 Average is for 1961-80 period.

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum [Shaded Box]

Average [Dashed Line]

Minimum [Hatched Box]

Current [Solid Line]



PRECIPITATION* 226

*Based on selected stations



WATER SUPPLY OUTLOOK:

Streamflow forecasts for both the Upper North Platte and Little Snake River Basins show that flows are expected to be about 20% above normal. Snowpack accumulation is also about 20% above normal. March precipitation was nearly 22% above average, with total precipitation for the year being about 54% above average. Reservoir storage is above the long term average, but is about 20% below last year at this time.

For more information contact your local Soil Conservation Service office.

UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE.	MOST PROEABLE (1000AF)	MOST PROEABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Northgate	APR-SEP	262.0	330.0	125	148	104				
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	888.0	125	153	94				
ENCAMPMENT RIVER near Encampment	APR-SEP	156.0	195.0	125	147	103				
ROCK CREEK near Arlington	APR-SEP	57.6	70.0	121	144	99				
LITTLE SNAKE RIVER near Dixon *	APR-SEP	320.0	390.0	121	150	94				
LITTLE SNAKE near Slater, CO *	APR-SEP	158.0	195.0	123	151	96				

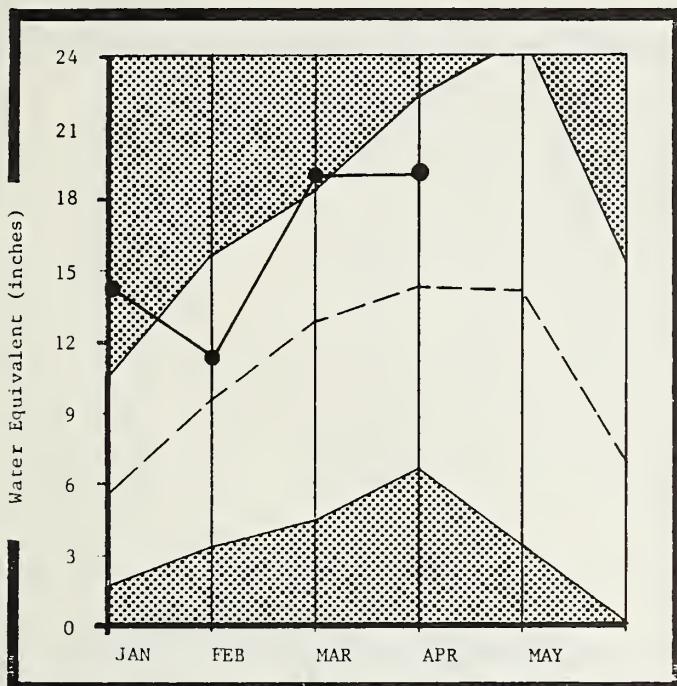
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVE.				
SEMINOE	1017.3	518.2	817.0	324.7	UPPER NORTH PLATTE	13	138	119
					ENCAMPMENT RIVER	3	133	127
					BRUSH CREEK	3	148	121
					MEDICINE BOW & ROCK CREEK	3	133	115
					N. PLATTE above SEMINOE	20	147	125
					UPPER LITTLE SNAKE RIVER	2	113	99
					SAVERY CREEK	2	123	118

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

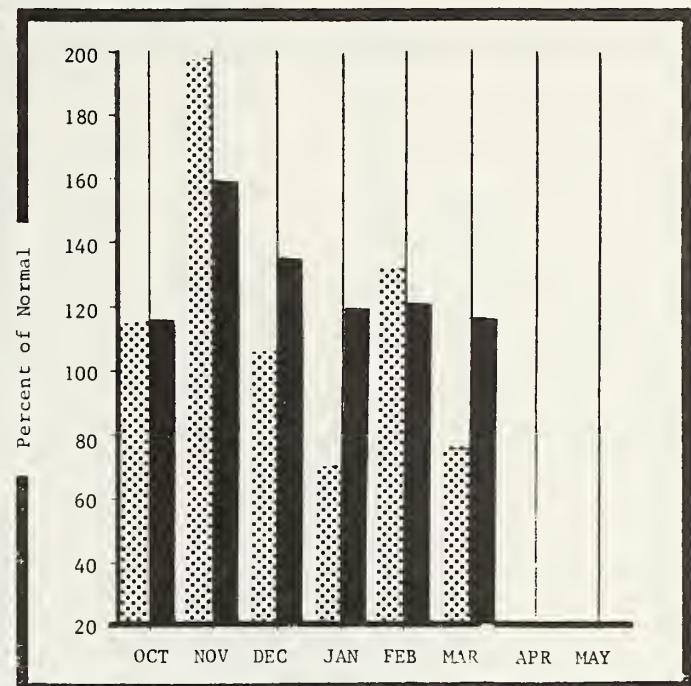
Maximum [solid line with dots]

Average [dashed line]

Minimum [solid line with squares]

Current [solid line]

PRECIPITATION*



*Based on selected stations

Monthly precipitation [dotted bar]

Year to date precipitation [solid bar]

WATER SUPPLY OUTLOOK:

Anticipated streamflows in these basins vary as much as any in the state. Flows in the Sweetwater and upper reaches of the Laramie Rivers are expected to be much above average, with the Sweetwater drainage being as much as 96% above average. Most of the remaining areas in the basins are expected to be above average, except for the Deer Creek and LaPrele Creek drainages which are expected to be about 40% below average. Snowpack buildup varies similarly. Precipitation was about 12% below normal for March.

For more information contact your local Soil Conservation Service office.

LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

STREAMFLOW FORECASTS

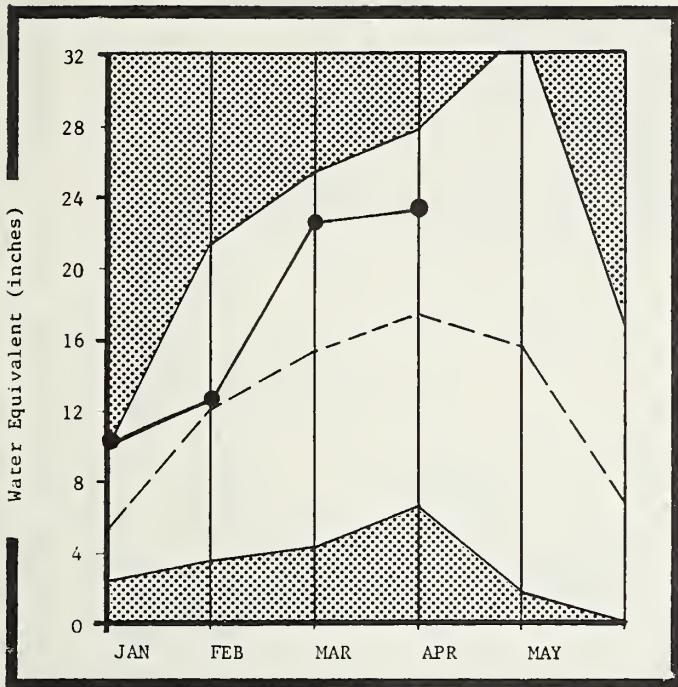
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	888.0	125	153	94				
SWEETWATER RIVER near Alcova	APR-SEP	73.7	145.0	196	285	145				
DEER CREEK at Glenrock	APR-SEP	51.8	32.0	61	106	19				
LaPRELE CREEK above Reservoir	APR-SEP	33.7	20.5	60	104	18				
NORTH PLATTE RIVER b/w Glendo *	APR-SEP	973.0	1143.0	117	156	83				
NORTH PLATTE R. b/w Guernsey *	APR-SEP	1001.0	1289.0	119	158	84				
LARAMIE RIVER near Woods *	APR-SEP	132.0	175.0	132	158	107				
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65.1	76.7	117	144	92				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
ALCOVA	184.3	180.2	155.2	180.8	4	238	176
GLENDON	789.4	487.9	369.0	423.0	2	117	89
GUERNSEY	45.6	30.0	31.9	22.4	14	134	112
PATHFINDER	1016.5	839.7	883.8	575.3	4	156	110
SEMINOE	1017.3	518.2	817.0	324.7	8	159	132
WHEATLAND #2	98.9	80.0	83.0	54.9	15	154	119
NORTH PLATTE PROJ	1062.1	777.1	1110.4	776.6	51	147	124
KENDRICK PROJECT	1201.7	1102.8	967.8	746.6			
GLENDON PROJECT USERS	183.2	178.8	66.3	142.7			

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

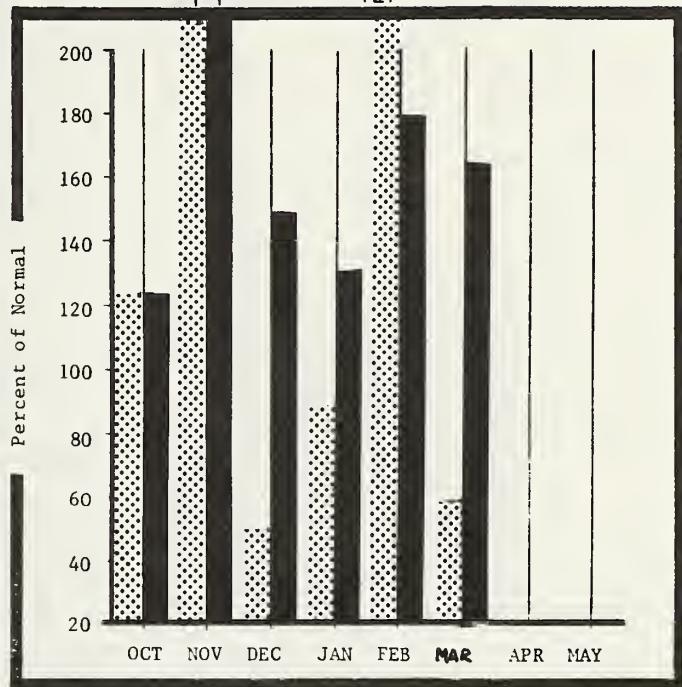
Maximum [Hatched Bar]

Average [Dashed Line]

Minimum [Solid Bar]

Current [Solid Bar]

PRECIPITATION*



*Based on selected stations



Monthly precipitation [Hatched Bar] Year to date precipitation [Solid Bar]

WATER SUPPLY OUTLOOK:

Streamflows are forecast to be above average, with the Big Sandy drainage being about 44% above. Snowpack accumulation for the most part is much above average, varying from 28% to 55% above normal. March precipitation was much below the average expected. It was only 59% of normal. Yearly precipitation remains much above average at nearly 62% above normal.

For more information contact your local Soil Conservation Service office.

UPPER GREEN RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GREEN RIVER near Warren Bridge	APR-SEP	326.0	420.0	128	144	114				
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1200.0	138	154	121				
LaBARGE CREEK at LaBarge Meadows	APR-SEP	8.9	10.8	121	146	101				
BIG SANDY RIVER near Big Sandy	APR-SEP	61.0	88.0	144	166	123	1200			

RESERVOIR STORAGE

(1000AF)

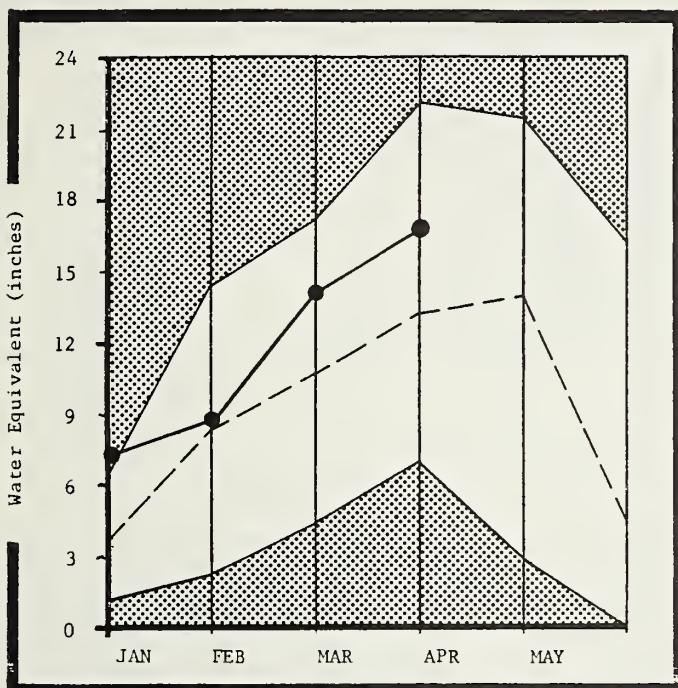
WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF
		THIS YEAR	LAST YEAR	AVE.			
BIG SANDY	38.3	25.0	24.2	18.5	GREEN above WARREN BRIDGE	4	201 140
EDEN	11.8	3.3	---	3.0	UPPER GREEN (West Side)	7	166 132
FLAMING GORGE	3749.0	2913.3	2987.3	---	NEWFORK LAKE	3	221 145
FONTENELLE	344.8	37.4	156.4	152.1	BIG SANDY/EDEN VALLEY	2	194 155
					GREEN above FONTENELLE	12	179 135

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

LOWER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

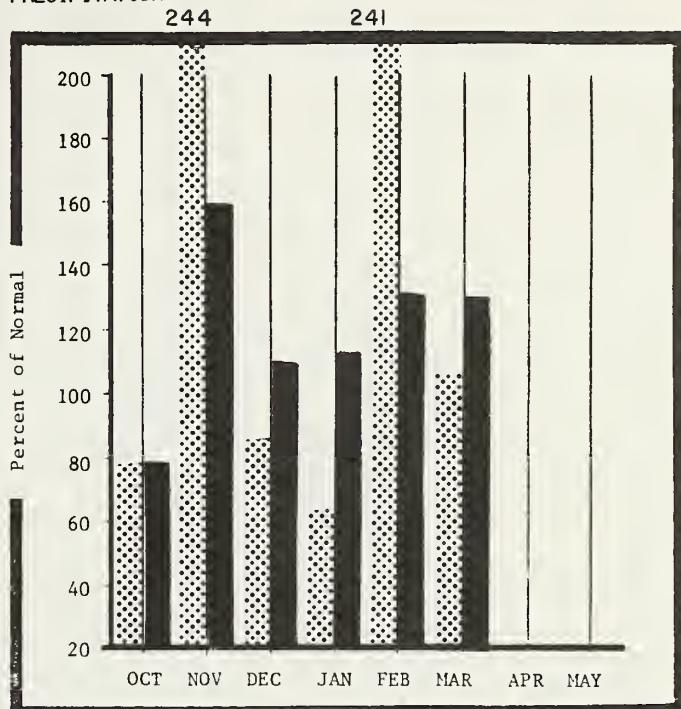
Maximum [diagonal lines]

Average [dashed line]

Minimum [vertical lines]

Current [solid line]

PRECIPITATION*



*Based on selected stations

WATER SUPPLY OUTLOOK:

Water users in this basin can expect near normal to slightly above normal streamflows this spring and summer. Flows are forecast to be between 18% and 34% above average. Snowpack accumulation also is near to slightly above normal. March precipitation was slightly above normal, with the yearly precipitation showing it is about 29% above normal.

For more information contact your local Soil Conservation Service office.

LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

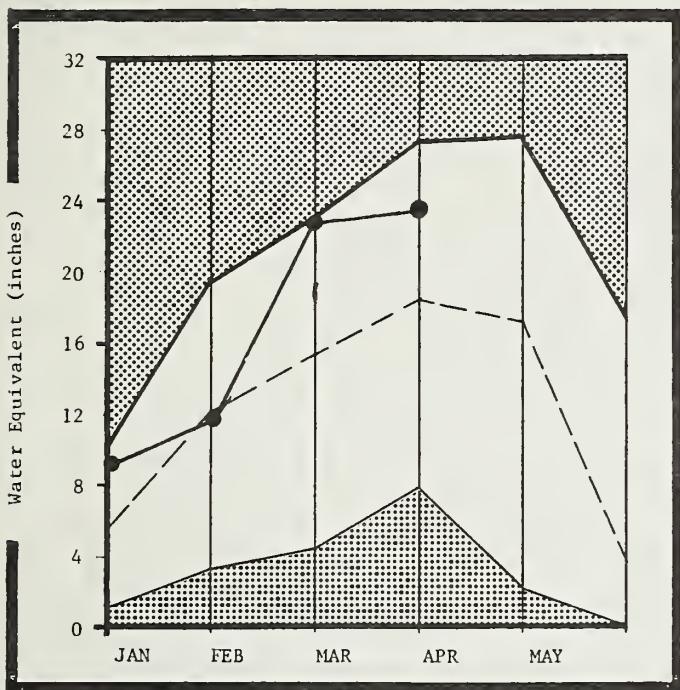
FORECAST POINT	FORECAST PERIOD	20 YR, AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1200.0	138	154	121				
HAMS FORK near Frontier	APR-SEP	71.3	90.0	126	147	105				
GREEN RIVER near Green River, WY *	APR-SEP	1079.0	1450.0	134	154	114				
BLACKS FORK near Milburne, UT	APR-JUL	89.9	114.0	126	160	99				
HENRYS FORK near Manila, UT	APR-SEP	48.0	59.0	122	160	96				
FLAMING GORGE Inflow *	APR-JUL	1248.0	1800.0	144	165	125				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
FONTENELLE	344.8	37.4	156.4	152.1	3	184	141
FLAMING GORGE	3749.0	2913.3	2987.3	---	4	130	115
VIVA NAUGHTON RES	42.4	10.6	25.9	26.1	2	127	137
					14	182	136

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK*

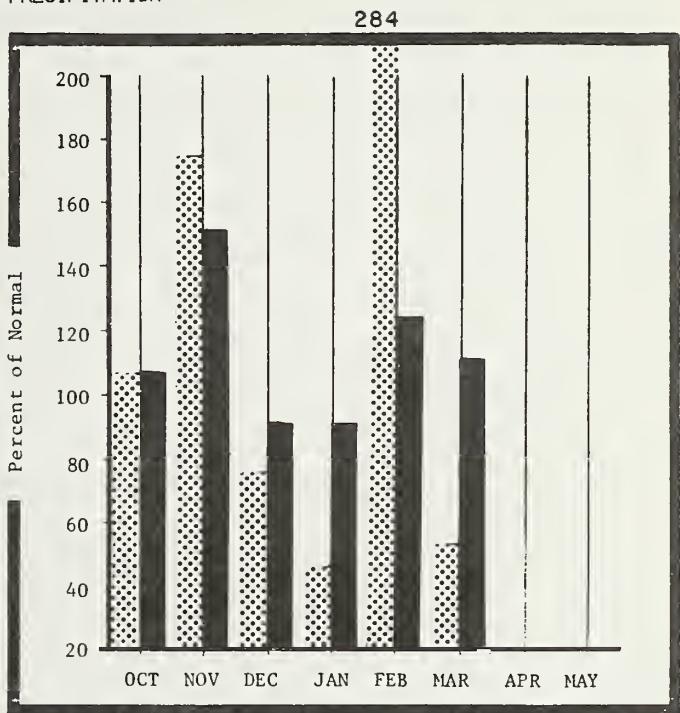


*Based on selected stations

Maximum Average

Minimum Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow prospects for this basin are good. Water users can expect above average streamflows this year. Forecast points show flows to be from 25% to 81% above average. Snowpack accumulation varies from 7% to 43% above normal. March precipitation was about 44% below normal, but for the year precipitation amounts are still slightly above average.

For more information contact your local Soil Conservation Service office.

UPPER BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SMITHS FORK near Border	APR-SEP	119.0	151.0	126	149	105				
THOMAS FORK near State line	APR-SEP	35.1	48.0	136	160	114				
BEAR RIVER at Utah-Wyoming line	APR-JUL	110.0	140.0	127	145	111				
BEAR RIVER near Woodruff, UT	APR-JUL	139.0	175.0	125	154	98				
BEAR RIVER near Randolph, UT	APR-JUL	110.0	200.0	181	234	130				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY 1 YEAR	** USEABLE STORAGE ** THIS YEAR	LAST AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE	
WOODRUFF NARROWS	55.8	55.8	56.5	UPPER BEAR RIVER	3	116	107	
				SMITHS & THOMAS FORK'S	3	183	143	
				BEAR RIVER abv IDAHO line	10	154	128	

*Corrected for upstream diversions or changes in reservoir storage.
 Average is for 1961-80 period.

THE FOLLOWING ORGANIZATIONS COOPERATE
WITH THE SOIL CONSERVATION SERVICE
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming
State Engineer of Wyoming
Department of Water Resources of Nebraska
Irrigation Districts of Wyoming
University of Wyoming
 Department of Atmospheric Resources
 Department of Agricultural Engineering

Federal

U.S. Department of Agriculture
 Soil Conservation Service
 Forest Service

U.S. Department of Commerce
 NOAA, National Weather Service

U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service
 Bureau of Indian Affairs
 Bureau of Land Management

Private

Utah Power and Light Company
Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

United States Department of Agriculture
Soil Conservation Service
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